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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/404,891	09/24/1999	PAUL H. SCOTT	0325.00273	8875
21363	7590 06/25/2004		EXAMINER	
CHRISTOPHER P. MAIORANA, P.C. 24840 HARPER			BURD, KEVIN MICHAEL	
ST. CLAIR SHORES, MI 48080			ART UNIT	PAPER NUMBER
•			2631	1.
•			DATE MAILED: 06/25/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)			
	09/404,891	SCOTT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kevin M Burd	2631			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 08 Ap	oril 2004.				
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3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 1-16,21 and 22 is/are pending in the a 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,9-12,21 and 22 is/are rejected. 7) Claim(s) 4-8,13-16 is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers	_				
9) The specification is objected to by the Examine		Evaminer			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				
S. Patent and Trademark Office					

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1. This office action, in response to the amendment filed4/8/2004, is a non-final office action.

Response to Arguments

2. Applicant's arguments, see amendment, filed 4/8/2004, with respect to the rejections of claims 1-16 under 35 USC 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground of rejection is made in view of the instant application's disclosed prior art.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claims 1-3, 9-12, 21 and 22 are rejected under 35 U.S.C. 102(a) as being anticipated by Mori et al (US 4,727,541).

Regarding claims 1 and 9, figure 1 discloses a first circuit configured to present a parallel output data signal from serializer 20 in response to two or more serial data signals that are input to selectable Mux 24 and a first clock signal output from RXPLL 22 and input to deserializer 20. This clock signal will have some phase. The phase of the

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clock signal will be selected by the RXPLL before outputting the clock signal. The RXPLL 22 recovers the first clock signal from the incoming serial data and presents the serial data and the recovered clock to the inputs 26 and 28 of the deserializer circuit 20 (page 3, lines 1-4). A second circuit is configured to present two or more serial data signals from switchable demux 46. The serial signals are sent to the receive circuit 12 (page 1, lines 16-17) and thereby presenting the first clock signal. These outputs are in response to a second clock signal generated by elements 40 and 42 and parallel input data input to serializer 44.

Regarding claim 2, the first clock comprises a bit clock. The first clock is generated by using the second clock and the second clock is a bit clock as shown in figure 1 of the instant application.

Regarding claim 3, the second clock comprises a reference clock. REFCLK is input at 56 in figure 1 and is used to generate the bit clock.

Regarding claim 10, figure 1 discloses a first circuit configured to present a parallel output data signal from serializer 20 in response to two or more serial data signals that are input to selectable Mux 24 and a first clock signal output from RXPLL 22 and input to deserializer 20. This clock signal will have some phase. The phase of the clock signal will be selected by the RXPLL before outputting the clock signal. The RXPLL 22 recovers the first clock signal from the incoming serial data and presents the serial data and the recovered clock to the inputs 26 and 28 of the deserializer circuit 20 (page 3, lines 1-4). A second circuit is configured to present two or more serial data signals from switchable demux 46. The serial signals are sent to the receive circuit 12

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(page 1, lines 16-17) and thereby presenting the first clock signal. These outputs are in response to a second clock signal generated by elements 40 and 42 and parallel input data that is input to the serializer 44. The clock signals will control the pulse width by dividing the clock in element 40.

Regarding claim 11, the first clock comprises a bit clock. The first clock is generated by using the second clock and the second clock is a bit clock as shown in figure 1 of the instant application.

Regarding claim 12, the second clock comprises a reference clock. REFCLK is input at 56 in figure 1 and is used to generate the bit clock.

Regarding claim 21, the first clock signal will have some phase. The phase of the clock signal will be selected by the RXPLL before outputting the clock signal. This circuit comprises a phase selection circuit

Regarding claim 22, the first clock signal will have some phase. The phase of the clock signal will be selected by the RXPLL before outputting the clock signal. This circuit comprises a phase selection circuit. Numerous phases are possible for this clock signal.

Allowable Subject Matter

4. Claims 4-8 and 13-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Mori et al (US 4,727,541) discloses the circuits shown in figures 5A and 5B. these circuits present parallel data in response to a clock and a plurality of serial data and present a plurality of serial data in response to a clock and parallel input data.

Contact Information

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for formal communications intended for entry or for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Burd, whose telephone number is (703) 308-7034. The Examiner can normally be reached on Monday-Thursday from 9:00 AM - 6:00 PM.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Kevin M. Burd

PATENT EXAMINER

Kerin M. Burd

6/23/2004